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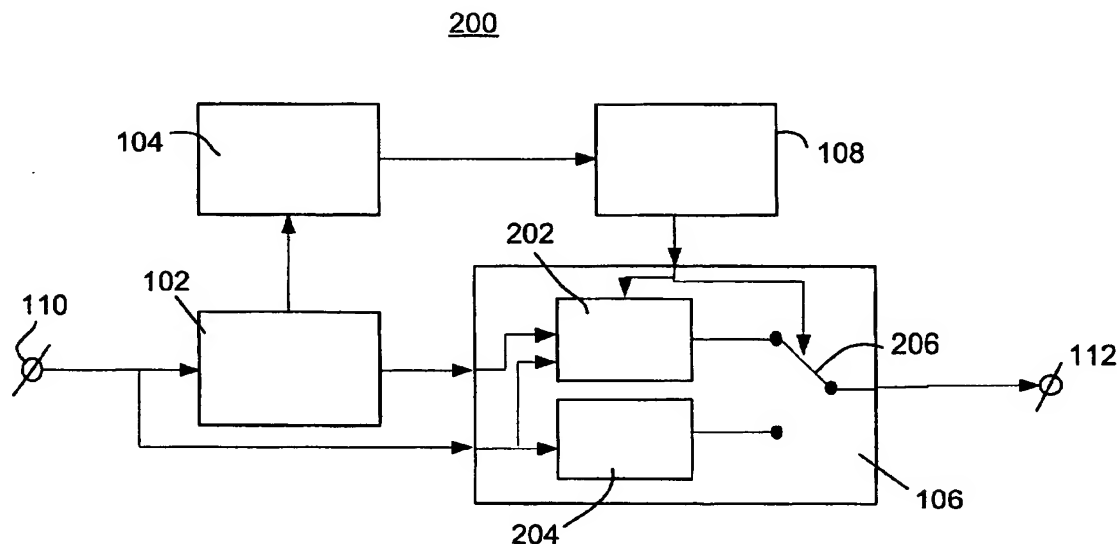
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[Continued on next page]

(54) Title: IMAGE PROCESSING UNIT WITH FALL-BACK



(57) Abstract: An image processing unit (100,200,300) for computing a sequence of output images on basis of a sequence of input images, comprises: a motion estimation unit (102) for computing a motion vector field on basis of the input images; a quality measurement unit (104) for computing a value of a quality measure for the motion vector field; an interpolation unit (106) for computing the output images by means of interpolation of pixel values of the input images, on basis of the motion vector field; and control means (108) to control the interpolation unit (106) on basis of the quality measure. The quality measurement unit (104) is arranged to compute the value of the quality measure on basis of a maximum difference between neighboring motion vectors. If the value of the quality measure is lower than a predetermined threshold, then a motion compensated interpolation is performed, else a non-motion compensated interpolation is performed.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04N7/01 G06T7/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04N G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

INSPEC, PAJ, WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	CSILLAG P ET AL: "Frame rate conversion based on acceleration and motion-based segmentation" DIGITAL COMPRESSION TECHNOLOGIES AND SYSTEMS FOR VIDEO COMMUNICATIONS, BERLIN, GERMANY, 7-9 OCT. 1996, vol. 2952, pages 438-448, XP008027989 Proceedings of the SPIE - The International Society for Optical Engineering, 1996, SPIE-Int. Soc. Opt. Eng, USA ISSN: 0277-786X abstract page 438, line 21 -page 439, paragraph 2 --- -/--	1-3,6,7, 10-13

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>PATENT ABSTRACTS OF JAPAN vol. 1995, no. 11, 26 December 1995 (1995-12-26) & JP 07 222167 A (NIPPON TELEGR & TELEPH CORP), 18 August 1995 (1995-08-18) abstract</p> <p>-----</p>	<p>1-3,6,7, 10-13</p>

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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JP 07222167 A 18-08-1995 NONE